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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/584,362	06/23/2006	Martine Petronella Bos	VB60639	1853
23347 7590 06/25/2008 GLAXOSMITHKLINE CORPORATE INTELLECTUAL PROPERTY, MAI B482 FIVE MOORE DR., PO BOX 13398			EXAMINER	
			GANGLE, BRIAN J	
	RESEARCH TRIANGLE PARK, NC 27709-3398		ART UNIT	PAPER NUMBER
			1645	
			NOTIFICATION DATE	DELIVERY MODE
			06/25/2008	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

USCIPRTP@GSK.COM LAURA.M.MCCULLEN@GSK.COM JULIE.D.MCFALLS@GSK.COM

	Application No.	Applicant(s)				
	10/584,362	BOS ET AL.				
Office Action Summary	Examiner	Art Unit				
	Brian J. Gangle	1645				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D/ - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin vill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on <u>23 Ju</u>	Ina 2006					
<u> </u>	,—					
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) Claim(s) <u>1-59</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)☐ Claim(s) is/are allowed.						
· ·	7) Claim(s) is/are objected to.					
8)⊠ Claim(s) <u>1-59</u> are subject to restriction and/or election requirement.						
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	nte				

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DETAILED ACTION

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Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-10 and 55-58, drawn to neisserial bacteria in which the expression of an Imp protein is functionally downregulated such that the level of LPS in the outer membrane is decreased compared to wild-type neisserial bacteria.

Group II, claim(s) 11-44 and 55-58, drawn to chimeric proteins comprising at least one part of which is derived from an Imp protein from a neisserial strain and at least one part which is derived from at least one different protein.

Group III, claim(s) 45-47 and 53-54, drawn to polynucleotides encoding a chimeric Imp protein, vectors containing said polynucleotide, and host cells comprising said protein, and methods of producing said protein by culturing said host cell.

Group IV, claim(s) 48-52 and 55-58, drawn to outer membrane vesicle preparations.

Group V, claim(s) 59, drawn to a method of preventing a neisserial infection by administering a chimeric protein comprising at least one part of which is derived from an Imp protein from a neisserial strain and at least one part which is derived from at least one different protein.

Group VI, claim(s) 59, drawn to a method of preventing a neisserial infection by administering an outer membrane vesicle preparation.

Group VII, claim(s) 59, drawn to a method of preventing a neisserial infection by administering neisserial bacteria in which the expression of an Imp protein is functionally downregulated such that the level of LPS in the outer membrane is decreased compared to wild-type neisserial bacteria.

Group VIII, claim(s) 59, drawn to a method of treating a neisserial infection by administering a chimeric protein comprising at least one part of which is derived from an Imp protein from a neisserial strain and at least one part which is derived from at least one different protein.

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Group IX, claim(s) 59, drawn to a method of treating a neisserial infection by administering an outer membrane vesicle preparation.

Group X, claim(s) 59, drawn to a method of treating a neisserial infection by administering neisserial bacteria in which the expression of an Imp protein is functionally downregulated such that the level of LPS in the outer membrane is decreased compared to wild-type neisserial bacteria.

Chimeric Protein Election Requirement Applicable to All Groups

In addition, each Group detailed above reads on patentably distinct chimeric proteins. Each chimeric protein is patentably distinct because they are structurally distinct proteins with differing biochemical and immunological properties and a further restriction is applied to each Group. Applicant must further elect the portion of Imp that altered (from claims 20-33) and the protein that is fused to Imp (from claims 35-43).

Applicant is advised that examination will be restricted to only the elected fusion protein and this should not be construed as a species election.

The inventions listed as Groups I-X do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

The technical feature linking Groups I-X appears to be a a chimeric protein comprising at least one part of which is derived from an Imp protein from a neisserial strain and at least one part which is derived from at least one different protein.

However, Berthet *et al.* (WO04/014418A2, filed on 7/31/2003) disclose fusion proteins comprising different neisserial proteins or fragments in the same recombinant polypeptide (page 11, lines 20-29). OstA is listed as one of these neisserial proteins that can be combined with other neisserial proteins (page 25).

Therefore, the technical feature linking the inventions of Groups I-X does not constitute a special technical feature as defined by PCT Rule 13.2, as it does not define a contribution over the art.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To preserve a right to petition, the election must be made with traverse. If the reply does not

distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

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Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and the product claims are subsequently found allowable, withdrawn process claims that depend from or otherwise require all the limitations of the allowable product claim will be considered for rejoinder. <u>All</u> claims directed to a nonelected process invention must require all the limitations of an allowable product claim for that process invention to be rejoined.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103 and 112. Until all claims to the elected product are found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained.

Withdrawn process claims that are not commensurate in scope with an allowable product claim will not be rejoined. See MPEP § 821.04(b). Additionally, in order to retain the right to rejoinder in accordance with the above policy, applicant is advised that the process claims should be

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amended during prosecution to require the limitations of the product claims. Failure to do so

may result in a loss of the right to rejoinder. Further, note that the prohibition against double

patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is

withdrawn by the examiner before the patent issues. See MPEP § 804.01. Any inquiry concerning

this communication or earlier communications from the examiner should be directed to Brian J.

Gangle whose telephone number is (571)272-1181. The examiner can normally be reached on

M-F 7-3:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Shanon Foley can be reached on 571-272-0898. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Brian J Gangle/

Examiner, Art Unit 1645

/Shanon A. Foley/

Supervisory Patent Examiner, Art Unit 1645